

Claims

[c1] What is claimed is:

1.A method for moving a pickup head module to an initial position for use in an optical disk drive without a touch sensor comprising the following step:
when power is provided to the optical disk drive,moving the pickup head module toward a spindle motor according to a gradually decreasing speed curve;
wherein the position where the pickup head stops is the initial position.

[c2] 2.The method of claim 1 wherein the maximum distance the pickup head is able to move according to the speed curve is a full stroke.

[c3] 3.A method for moving a pickup head module to an initial position for use in an optical disk drive without a touch sensor comprising the following steps:
recording a present address of a disk corresponding to the pickup head module after seeking and accessing the disk;
calculating a return distance according to the present address and an initial address of the disk; and
moving the pickup head module for the return distance

in the direction from an outer ring to an inner ring of the disk.

[c4] 4.The method of claim 3 wherein the pickup head module moves for the return distance when the disk is removed.

[c5] 5.A method for moving a pickup head module to an initial position for use in an optical disk drive without a touch sensor comprising the following steps:
when power is provided to the optical disk drive, moving the pickup head module toward a spindle motor according to a gradually decreasing speed curve until the pickup head stops;
recording a present address of a disk corresponding to the pickup head module after seeking and accessing the disk;
calculating a return distance according to the present address and the initial address of the disk; and
moving the pickup head module for the return distance toward the spindle motor.

[c6] 6.The method of claim 5 wherein the maximum distance the pickup head is able to move according to the speed curve is a full stroke.

[c7] 7.The method of claim 5 wherein the pickup head mod-

ule moves for the return distance when the disk is removed.